

CLAIMS

1. A health management system comprising:

a measuring device carried by a subject, the measuring device measuring activity of the subject,

5 a medical examination result database for storing medical examination result data history of the subject,

and a data processing device connected with the measuring device for mutual communication, the data processing device processing activity data obtained by the measuring device,

10 wherein the measuring device comprises means for measuring movement of the subject, means for storing the activity data showing intensity of activity of the subject, the intensity of activity having been determined from the measured movement of the subject, means for storing identification information specifying the subject, and means for transmitting the activity data stored in the activity data storing means and the identification information stored in the identification information storing means to the data processing device,

15 wherein the medical examination result database is connected with the data processing device for mutual communication, and stores the medical examination result data history of the subject which is correlated with the identification information of the subject, and

20 wherein the data processing device comprises means for receiving the activity data and the identification information transmitted from the transmitting means of the measuring device, and means for outputting a health management report, the health management report having been produced on the basis of the received activity data and on the basis of the medical examination result data history extracted from the medical examination result database, the medical examination result data history having been correlated with the received identification information.

25 2. A health management system as in claim 1, wherein the transmitting means of the measuring device transmits the activity data which has been stored within a predetermined period, and wherein the health

management report output by the data processing device includes states of activity within the predetermined period, these states of activity having been calculated from the activity data, and the medical examination result data from before and after the predetermined period.

5 3. A health management system as in claim 2, wherein the medical examination result database stores weight data of the subject, and wherein the medical examination result data, which are shown on the health management report output by the data processing device, includes the weight data from before and after the predetermined period.

10 4. A health management system as in claim 3, wherein the medical examination result database further stores height data of the subject, and wherein the health management report output by the data processing device further includes a graph of weight and height, one of these weight and height being on a vertical axis and the other on a horizontal axis, the graph showing a boundary between an upper limit and a lower limit of normal weight range, the range having been set on the basis of the height data of the subject, and
15 the graph also showing the weight data from before and after the predetermined period.

5. A health management system as in any of claims 1 - 4, wherein the identification information, which is stored in the identification information storing means of the measuring device, includes the information for specifying a group to which the subject belongs, wherein the medical examination result database
20 stores the medical examination result data history of each subject belonging to the group, and wherein the health management report output by the data processing device includes an average value of the medical examination result data of the group which is specified from the identification information.

6. A health management system as in claim 1, wherein the data processing device further comprises
25 means for inputting the identification information for specifying the subject, and means for transmitting the input identification information to the measuring device, and

wherein the measuring device further comprises means for receiving the transmitted identification information, and means for replacing the identification information, which is stored in the identification information storing means, with the received identification information.

5 7. A health management system as in claim 6, wherein the identification information, which is stored in the identification information storing means of the measuring device, is replaced with the received identification information only when the identification information receiving means has received this identification information from the data processing device.

10 8. A health management system as in claim 1, wherein the measuring device further comprises a first timer and means for producing a calendar date based on the time kept by the first timer,

wherein the data processing device further comprises a second timer, means for producing calendar data for correction, the calendar data being based on the time kept by the second timer, and means for transmitting the calendar data for correction to the measuring device, and

15 wherein the measuring device further comprises means for receiving the calendar data for correction, and means for correcting the first timer on the basis of the received calendar data for correction.

9. A health management system as in claim 8, wherein the measuring device further comprises means
20 for inserting calendar data, which have been produced within each first predetermined period, into the activity data, the activity data being produced within each second predetermined period and being stored in the activity data storing means, and means for correcting the activity data stored in the activity data storing means, the activity data correcting means being performed on the basis of a period for producing activity data, the period being specified from the calendar data inserted into the activity data, and

25 wherein the activity data correcting means performs the following: (1) in the case where a plurality of items of activity data are stored from overlapping periods for producing activity data, any one of these

plurality of items of activity data is retained and the other items are deleted, and (2) in the case where the activity data has a blank period in which no activity data has been produced, dummy data is inserted into the blank period.

5 10. A data processing device connected with the measuring device for measuring activity of a subject for mutual communication, the data processing device processing the activity data transmitted from the measuring device, the data processing device comprising:

means for receiving the activity data transmitted from the measuring device, and

10 means for outputting a health management report including states of activity calculated from the received activity data,

wherein a period in which the received activity data was obtained is divided into a plurality of first determined periods, and wherein the health management report includes a graph displaying, for each first predetermined period, an total of time, the total of time having been obtained from the activity data for the case where intensity of activity was above a predetermined value during the first predetermined period, and the graph indicating the total of time within a plurality of first predetermined periods with a marker, the total of time having exceeded the predetermined total of time.

11. A data processing device as in claim 10, further comprising:

a display for displaying the health management report,

20 means for selecting one of the totals of time displayed in the display, and

means for displaying changes over time in the activity data in the display after one of the totals of time has been selected by using the selecting means, the activity data being obtained within the first determined period of the selected total of time.

12. A data processing device connected with the measuring device for measuring activity of a subject for mutual communication, the data processing device processing the activity data transmitted from the measuring device, the data processing device comprising:

means for receiving the activity data transmitted from the measuring device, and

5 means for outputting a health management report including states of activity calculated from the received activity data,

wherein a period in which the received activity data was obtained is divided into a plurality of second predetermined periods, and wherein the health management report includes a graph displaying, for each second period, the energy consumption or the number of steps, these having been calculated from
10 the activity data obtained within the second determined period, and background colors of the graph differ on one side and the other side of the boundary, the boundary functioning a determined value set for the energy consumption or the number of steps.

13. A data processing device as in 12, wherein the determined value is an average value of the energy
15 consumption or the number of steps, and the average value having been calculated for each second predetermined period.

14. A data processing device as in claim 12, wherein the determined value is a target value for the energy consumption needed to be expended or the number of steps needed to be expended within the
20 second predetermined period.

15. A data processing device as in claim 12, wherein the health management report further includes, for each second predetermined period, the number of times in which the activity data has been obtained wherein intensity of activity was above a predetermined value and was continued longer than a
25 predetermined period.

16. A data processing device connected with the measuring device for measuring activity of a subject for mutual communication, this data processing device processing the activity data transmitted from the measuring device, the data processing comprising:

means for receiving the activity data transmitted from the measuring device, and

5 means for outputting a health management report including states of activity calculated from the received activity data,

wherein a period in which the received activity data was obtained is divided into a plurality of third predetermined periods, and wherein the health management report includes a graph displaying, for each third predetermined period, changes over time in the activity data, and a graph displaying an total of time for each state of exercise, these total of time having been obtained by dividing the activity data obtained within the third predetermined periods into a plurality of states of exercise, these states of exercise having been set earlier to correspond to intensity of activity.

17. A data processing device as in claim 16, wherein the health management report further includes

15 energy consumption calculated for each third predetermined period and/or an average value of the energy consumption calculated for each third predetermined period.

18. A data processing device as in claim 16, wherein the health management report further marks, in the graph displaying changes over time in the activity data of the third predetermined periods, sections in the

20 activity data in which the intensity of activity of the activity data was above a predetermined value and continued longer than a predetermined period.

19. A data processing device connected with the measuring device for measuring activity of a subject for mutual communication, this data processing device processing the activity data transmitted from the

25 measuring device, the data processing device comprising:

means for receiving the activity data transmitted from the measuring device, and

means for outputting a health management report including states of activity calculated from the received activity data,

wherein a period in which the received activity data was obtained is divided into a plurality of fourth predetermined periods, and wherein the health management report includes a plot graph having plotted thereon one of 'either period of exercise or number of steps' and energy consumption, these having been calculated from the activity data of the fourth predetermined period, and one of 'either period of exercise or number of steps' and the energy consumption being on a vertical axis and the other on a horizontal axis.

20. A data processing device as in claim 19, wherein the plot graph displays a dividing line dividing the plot graph into a plurality of regions, the dividing line being formed on the basis of a target value for the energy consumption needed to be expended and/or the number of steps needed to be expended.

21. A data processing device as in claims 19 or 20, wherein the plot graph further displays a linear regression line of plotted points.

22. A data processing device connected with the measuring device for measuring activity of a subject for mutual communication, this data processing device processing the activity data transmitted from the measuring device, the data processing device comprising:

means for receiving the activity data transmitted from the measuring device, and

means for deleting certain activity data from the received activity data, and for calculating a state of activity, the deleted activity data being: activity data wherein intensity of activity is outside a predetermined threshold range and is continued longer than a predetermined period, or activity data wherein a number of steps within a predetermined period is outside a predetermined threshold range, this number of steps having been calculated from the activity data.

23. A data processing device connected with the measuring device for measuring activity of a subject for mutual communication, this data processing device processing the activity data transmitted from the measuring device, the data processing device comprising:

means for receiving the activity data transmitted from the measuring device,

5 means for accumulating and storing the received activity data,

means for inputting a period wherein state of activity of the subject is evaluated, and

means for calculating the state of activity of the subject from the activity data stored in the storing

means, these activity data having been obtained within the input evaluating period,

wherein calendar data is inserted at a predetermined time into the activity data received by the

10 receiving means, and wherein the calculating means specifies activity data occurring within the input

evaluating period out of the activity data stored in the storing means, this specification being performed on

the basis of the calendar data inserted into the activity data, and the calculating means calculates the state

of activity from the specified activity data.

15 24. A measuring device carried by a subject and measuring activity of the subject, comprising:

means for measuring movement of the subject,

means for storing activity data, the activity data showing intensity of activity of the subject, the
intensity of activity having been determined from the measured movement of the subject,

20 means for producing display data for displaying changes over time in the activity data stored in the
activity data storing means, and

a display for displaying the changes over time in the activity data based on the display data,

wherein, in the display, a predetermined threshold value which has been set for intensity of activity

functions as a boundary, and a background color in the case where the intensity of activity is below the

threshold value differs from a background color in the case where the intensity of activity exceeds the

25 threshold value.

25. A measuring device as in claim 24, wherein, in the display, the background color in the case where the intensity of activity is below the threshold value is the same color as the background color in the case where the intensity of activity exceeds the threshold value, but the background color is lighter and darker shades of the same color.

5

26. A measuring device as in claims 24 or 25, wherein the measuring device comprises means for inputting a beginning point of the display of changes over time in the activity data, wherein, in the display, the changes over time in the activity data within a predetermined period are displayed from this input beginning point.

10